

AN IP/MPLS-BASED TRANSPORT SCHEME IN 3G RADIO ACCESS NETWORKS

ABSTRACT

A transport scheme is provided based on Internet protocol (IP) and multiprotocol label switching (MPLS) technology for third generation (3G) radio access networks (RAN). Label switched paths are established and managed for interconnecting base stations and radio network controllers. The process incorporates constraint-based routing and Diffserv to provide transport bearers that can support bandwidth provisioning and a variety of QoS requirements in the RAN.